

Weekly Report for 2015/11/02-2015/11/08

Guo Fangzhou

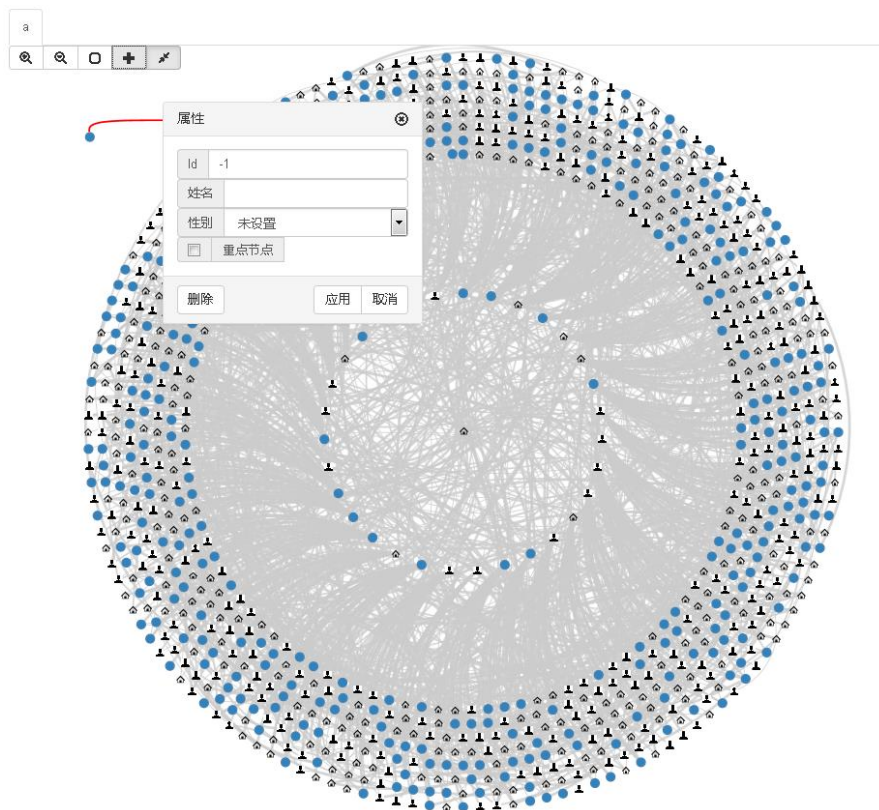
Progress

1. TCPTree Project

2. Large Graph Visualization

The function of adding node is added.

After the button of adding node is clicked, a new node will appear and a panel will show up to help the user to modify the attribute of the node.



3. Vis 2016 Paper

I did the idea evaluation and the brain storming of my project.

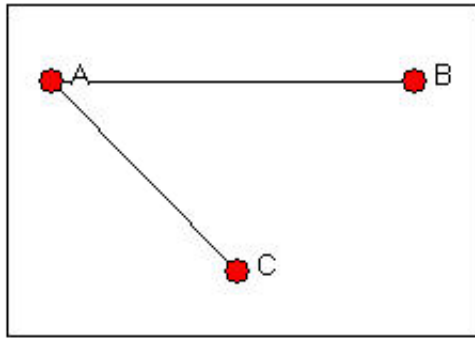


Fig.1

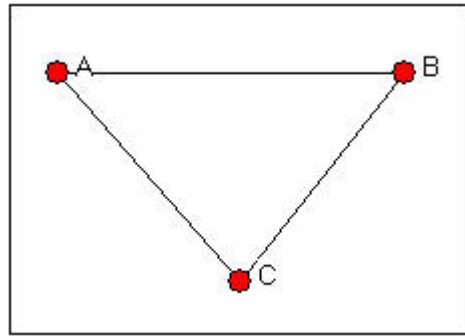


Fig.2

I first introduced the basic concept of structural holes. Structural holes is not a certain structure in the network. As shown in Fig.1, there is a structural hole between B and C, and in Fig.2, there is no structural hole between B and C. But when the network becomes large, the situation will be complicated.

There are many measurements to measure whether a node is in the structural hole or not, such as dyadic redundancy, dyadic constraint, and effective size of the network. Different measurements describe different feature of structural hole.

I got many advices during the brain storming.

1. I should consider the meaning of detecting structural holes.
2. Use contour to show the groups of structural holes.
3. Focus on visualizing the evolution of structural holes.

Plan

1. TCPTree Project

2. Large Graph

Community data

Interaction of add edge and merge nodes.

3. Vis 2016 Paper

Read papers and see how to calculate the structural holes